

Patent Claims

WHAT IS CLAIMED, IS

1. Method for bit-rate saving encoding of audio signals  
5 using a psychoacoustic model, comprising the steps of:  
performing a Fourier Transformation with a length  
of L samples for calculation of a minimum masking  
threshold by calculating k subtransformations over  $2^N$   
samples with  $k \cdot 2^N = L$ ;  
10 fitting together the results of the k  
subtransformations;  
arranging L samples of the audio signal in a frame  
for transmission.
- 15 2. Method according to claim 1, **wherein** the number k of  
subtransformations is not a power of 2.
3. Method according to claim 1, **wherein** before fitting  
together the results of the k subtransformations, these  
20 are multiplied with phase correction factors.
4. Method according to any of claims 1, **wherein** the  
Fourier Transformation is performed within the  
algorithm for the psychoacoustic model 2 of MPEG I  
25 Audio Layer II and wherein the frame length L is 1152  
samples.
5. Method according to claim 4, **wherein**  $k=9$   
subtransformations with a length of  $M=2^N = 128$  samples  
30 are calculated.
6. Encoder for performing the method according to claim 1.

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